

We claim:

1. An electrically motorized pump for use in a fluid comprising:

a motor;

a pump; and

at least one sleeve bearing wherein a portion of the sleeve bearing is made of a synthetic resin composition obtained by uniformly blending powder of RBC or CRBC with fibers and a resin, the rotating parts of the motor and the pump being rotatably supported by the sleeve bearing.

2. The electrically motorized pump of Claim 1, wherein the motor comprises:

a stator;

a housing with collar; and

a can seal with collar, the stator being located in an outer peripheral space between the housing and the can seal.

3. The electrically motorized pump of Claim 2, wherein the motor further comprises:

a rotor;

a shaft; and

at least one sleeve, the shaft and the sleeve forming the sleeve bearing and the rotor being rotatably supported by the sleeve bearing forming a rotor assembly, the rotor assembly being located in an inner space of the can seal.

4. The electrically motorized pump of Claim 1, wherein a fluid may freely flow from the impeller side to the rotor side.
5. The electrically motorized pump of Claim 3, wherein the synthetic resin composition has a ratio by mass of fine powder of RBC or CRBC to the resin of 30 to 90 : 70 to 10.
6. The electrically motorized pump of claim 3, wherein the fibers are selected from a group consisting of inorganic fibers and organic fibers.
7. The electrically motorized pump of claim 3, wherein the fibers are selected from a group consisting of short fibers and long fibers.
8. The electrically motorized pump of claim 3, wherein the content ratio of fibers is 1- 30% by weight based on weight of the entire synthetic resin composition.
9. The electrically motorized pump of claim 3, wherein the fibers are glass fiber.
10. The electrically motorized pump of Claim 3, wherein the sleeve of the sleeve bearing has at least one spiral groove on the inner face of the sleeve.
11. The electrically motorized pump of Claim 3, wherein the shaft has at least one spiral groove on its surface.
12. The electrically motorized pump of Claim 5, wherein the resin used in making the sleeve is selected from a group consisting of Nylon 66, Nylon 6, Nylon 11, Nylon 12, polyphthalamide,

polyacetal, polybutylene terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and polyphenylene sulfide.

13. The electrically motorized pump of Claim 5, wherein the resin used in making the sleeve includes at least two members of the group consisting of Nylon 66, Nylon 6, Nylon 11, Nylon 12, polyphthalamide, polyacetal, polybutylene terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and polyphenylene sulfide.

14. The electrically motorized pump of Claim 5, wherein the average particle diameter of the powder of RBC or CRBC is 300 μm or less.

15. The electrically motorized pump of Claim 5, wherein the average particle diameter of the powder of RBC or CRBC is 10 to 50 μm .

16. The electrically motorized pump of Claim 5, wherein the shaft is made of corrosion – resistant steel type metal.

17. The electrically motorized pump of Claim 5, wherein the shaft is made of the synthetic resin composition.

18. The electrically motorized pump of Claim 17, wherein the resin used in making the shaft is selected from a group consisting of nylon 66, nylon 6, nylon 11, nylon 12, poly acetal, poly butylenes terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and poly phenylene sulfide.

19. The electrically motorized pump of Claim 17, wherein the resin used in making the shaft includes at least two members of the group consisting of nylon 66, nylon 6, nylon 11, nylon 12,

poly acetal, poly butylenes terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and poly phenylene sulfide.

AMENDMENTS IN THE CLAIMS:

Please amend the Claims as follows:

1. (Currently Amended) An electrically motorized pump for use in a fluid comprising:

a motor;

a pump coupled to the motor; and

at least one sleeve bearing that rotatably supports the motor or the pump, wherein a portion of the sleeve bearing is made of a synthetic resin composition obtained by uniformly blending powder of RBC or CRBC with ~~fibers and~~ a resin, ~~the rotating parts of the motor and the pump being rotatably supported by the sleeve bearing.~~

2. (Currently Amended) The electrically motorized pump of Claim 1 ~~21~~, ~~wherein the motor comprises~~ further comprising:

~~a stator;~~

a housing with collar; ~~and~~

a can seal with collar, ~~the stator being located in an outer peripheral space between the housing and the can seal.~~ the can seal being mounted on the housing; and

a stator, the stator being mounted in an outer peripheral space between the housing and the can seal.

3. (Currently Amended) The electrically motorized pump of Claim 2, ~~wherein the motor further comprises~~ further comprising:

a rotor;

~~a shaft; and~~

an impeller mounted on the shaft; and

at least one sleeve rotatably mounted on the shaft, the shaft and the sleeve forming the sleeve bearing and the rotor being rotatably supported by the sleeve bearing forming a rotor assembly, the rotor assembly being located in an inner space of the can seal.

4. (Currently Amended) The electrically motorized pump of Claim 1 ~~3~~, wherein a fluid may freely flow from the impeller side to the rotor side.

5. (Original) The electrically motorized pump of Claim 3, wherein the synthetic resin composition has a ratio by mass of fine powder of RBC or CRBC to the resin of 30 to 90 : 70 to 10.

6. (Original) The electrically motorized pump of claim 3, wherein the fibers are selected from a group consisting of inorganic fibers and organic fibers.

7. (Currently Amended) The electrically motorized pump of claim 3, wherein the fibers are selected from a group consisting of ~~short fibers and long fibers~~ fibers of varying lengths.

8. (Original) The electrically motorized pump of claim 3, wherein the content ratio of fibers is 1-30% by weight based on weight of the entire synthetic resin composition.

9. (Original) The electrically motorized pump of claim 3, wherein the fibers are glass fiber.

10. (Original) The electrically motorized pump of Claim 3, wherein the sleeve of the sleeve bearing has at least one spiral groove on the inner face of the sleeve.
11. (Original) The electrically motorized pump of Claim 3, wherein the shaft has at least one spiral groove on its surface.
12. (Original) The electrically motorized pump of Claim 5, wherein the resin used in making the sleeve is selected from a group consisting of Nylon 66, Nylon 6, Nylon 11, Nylon 12, polyphthalamide, polyacetal, polybutylene terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and polyphenylene sulfide.
13. (Original) The electrically motorized pump of Claim 5, wherein the resin used in making the sleeve includes at least two members of the group consisting of Nylon 66, Nylon 6, Nylon 11, Nylon 12, polyphthalamide, polyacetal, polybutylene terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and polyphenylene sulfide.
14. (Original) The electrically motorized pump of Claim 5, wherein the average particle diameter of the powder of RBC or CRBC is 300 μm or less.
15. (Original) The electrically motorized pump of Claim 5, wherein the average particle diameter of the powder of RBC or CRBC is 10 to 50 μm .
16. (Original) The electrically motorized pump of Claim 5, wherein the shaft is made of corrosion – resistant steel type metal.
17. (Currently Amended) The electrically motorized pump of Claim 5, wherein at least one of the shaft and the sleeve is made of the synthetic resin composition.

18. (Original) The electrically motorized pump of Claim 17, wherein the resin used in making the shaft is selected from a group consisting of nylon 66, nylon 6, nylon 11, nylon 12, poly acetal, poly butylenes terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and poly phenylene sulfide.

19. (Original) The electrically motorized pump of Claim 17, wherein the resin used in making the shaft includes at least two members of the group consisting of nylon 66, nylon 6, nylon 11, nylon 12, poly acetal, poly butylenes terephthalate, polyethylene terephthalate, polypropylene, polyethylene, and poly phenylene sulfide.

20. (new) The electrically motorized pump of claim 1, wherein the synthetic resin composition further comprises fibers, the fibers being uniformly blended with the RBC or CRBC and resin.

21. (new) The electrically motorized pump of claim 20, wherein the sleeve bearing comprises a shaft and a sleeve and at least the shaft or the sleeve is made of the synthetic resin composition.

22. (new) The electrically motorized pump of Claim 3, wherein at least the shaft or the sleeve is made of the synthetic resin composition.